

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/010578 A2

(51) International Patent Classification⁷: **G02B 6/00**

(21) International Application Number:
PCT/GB2004/003108

(22) International Filing Date: 15 July 2004 (15.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0316825.9 17 July 2003 (17.07.2003) GB

(71) Applicant (for all designated States except US): **DOW CORNING LIMITED** [GB/GB]; Cardiff Road, Barry, Glamorgan CF63 2YL (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **CLAPP, Terry, Victor** [GB/GB]; 8 Robert Wallace Close, Bishop's Stortford, Hertfordshire CM23 2TG (GB).

(74) Agent: **ELKINGTON AND FIFE LLP**; Prospect House, 8 Pembroke Road, Sevenoaks, Kent TN13 1XR (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

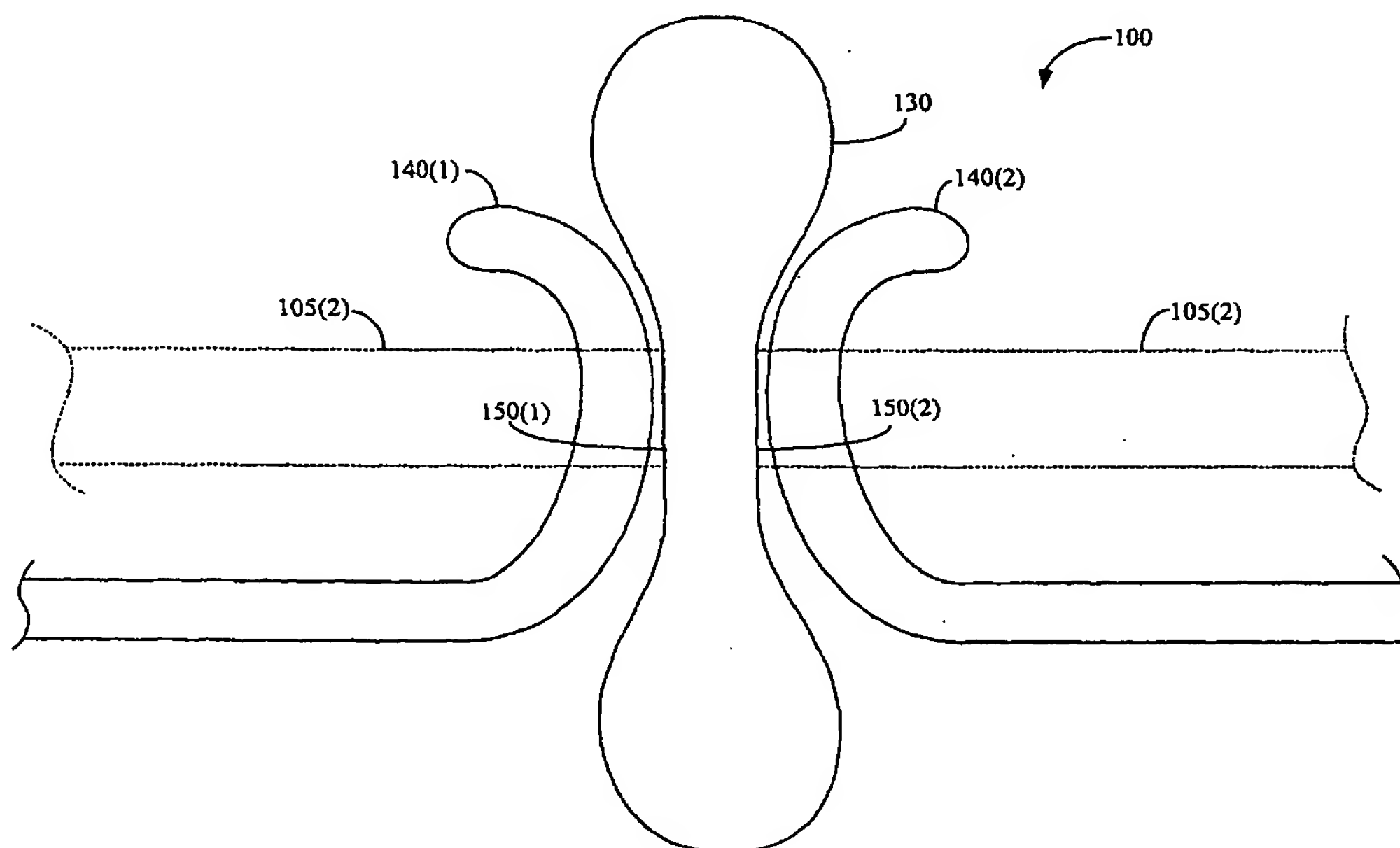
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **AN ELECTRO-OPTIC GAP-CELL FOR WAVEGUIDE DEPLOYMENT**



(57) Abstract: The present invention provides an electro-optic gap-cell for waveguide deployment, including a first optical transmission medium formed in at least a portion of a device layer, a second optical transmission medium formed in at least a portion of the device layer, and a slot formed in at least a portion of the device layer, wherein the slot has at least one curved edge, and wherein the slot is disposed adjacent to the first and second transmission media.

WO 2005/010578 A2